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- (71) Applicant (*for all designated States except US*): **STJUDE CHILDREN'S RESEARCH HOSPITAL, INC.** [US/US]; 332 N. Lauderdale Street, Memphis, TN 38105-2794 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **DOWNING, James, R.** [US/US]; 7650 Chapel Ridge Drive, Cordova, TN 38106 (US). **YEOH, Eng-Juh** [MY/SG]; 5 Lower Kent Ridge Road, Singapore 119074, Republic of Singapore (SG). **WILKINS, Dawn, E.** [US/US]; 3321 Whippoorwill Lane, Oxford, MS 38655 (US). **WONG, Limsoon** [SG/SG]; 6B Balmeg Hill #02-01, Singapore 119908, Republic of Singapore (SG).
- (74) Agent: **COULTER, Kathryn, L. Alston & Bird**; Bank of America Plaza, Suite 4000, 101 South Tryon Street, Charlotte, NC 28280-4000 (US).
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(54) Title: CLASSIFICATION AND PROGNOSIS PREDICTION OF ACUTE LYMPHOBLASTIC LEUKEMIA BY GENE EXPRESSION PROFILING

(57) Abstract: The present invention provides methods and compositions useful for diagnosing and choosing treatment for leukemia patients. The claimed methods include methods of assigning a subject affected by leukemia to a leukemia risk group, methods of predicting whether a subject affected by leukemia has an increased risk of relapse, methods of predicting whether a subject affected by leukemia has an increased risk of developing secondary acute myeloid leukemia, methods to aid in the determination of a prognosis for a subject affected by leukemia, methods of choosing a therapy for a subject affected by leukemia, and methods of monitoring the disease state in a subject undergoing one or more therapies for leukemia. The claimed compositions include arrays having capture probes for the differentially-expressed genes of the invention, computer readable media having digitally-encoded expression profiles associated with leukemia risk groups, and kits for diagnosing and choosing therapy for leukemia patients.